

ignition

USER MANUAL



Matrix Unlimited

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1. Safety instructions



- This device is suitable for indoor use only.
- All modifications to the device will void the warranty.
- Repairs are to carry out by skilled personnel only.
- Use only fuses of the same type and original parts as spare parts.
- Protect the unit from rain and humidity to avoid fire and electric shocks.
- Make sure to unplug the power supply before opening the housing.

1.1. FOR SAFE AND EFFICIENT OPERATION

Be careful with heat and extreme temperature

Avoid exposing it to direct rays of the sun or near a heating appliance.

Not put it in a temperature below 32°F / 0°C, or exceeding 104°F / 40°C.

Keep away from humidity, water and dust

Do not place the set in a location with high humidity or lots of dust.

Containers with water should not be placed on the set.

Keep away from sources of hum and noise

Such as transformer motor, tuner, TV set and amplifier.

To avoid placing on un-stable location

Select a level and stable location to avoid vibration.

Do not use chemicals or volatile liquids for cleaning

Use a clean dry cloth to wipe off the dust, or a wet soft cloth for stubborn dirt.

If out of work, contact sales agency immediately

Any troubles arose, remove the power plug soon, and contact with an engineer for repairing, do not open the cabinet by yourself, it might result a danger of electric shock.

Take care with the power cable

Never pull the power cable to remove the plug from the receptacle, be sure to hold the plug.

When not using the device for an extended period of time, be sure to disconnect the plug from the receptacle.

Important: Damages caused by the disregard of this user manual are not subject to warranty. The dealer will not accept liability for any resulting defects or problems. Make sure the electrical connection is carried out by qualified personnel. All electrical and mechanical connections have to be carried out according to the European safety standards.

1.2. Security Tips



Excessive temperature

Ta=40°C

Please do not use the device if the temperature exceeds 40°C/104°F.

Device surface temperature: max. 60°C



Beware of electrical shock

Make sure the electrical connection is carried out by qualified personnel.

Before you plug in the device make sure that the power supply system has the right voltage and also a crowbar. Every device has to be grounded.

Rated voltage range: AC110V-120V/60Hz or AC200V-240V / 50HZ



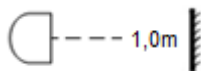
Fire risk

Make sure that the fuse functioned. It is never allowed to bridge it. If you have to exchange it only use fuses of the same type.

The distance between the device and lighted things has to be at least 1m.

From a distance of 1m the temperature of the beam subsides among 60°C.

It is not allowed cover fans and air in and outlets.



Make sure that there is a distance between the device and all objects in area of 0,5m.

Don't put or mount anything on the lens.

- Led consecutive working hours are not recommended more than 10 hours.
- The cooling fan should be cleaned weekly! If there is too much dirt or dust at the fan it might be possible that the device cannot be cooled enough and some electronic parts will going to lose their function or can be damaged.

When we send out the goods, they are well packaged and also at best condition. Every product was tested before delivery. If you recognize mistakes or damages please contact the delivery agent or the supplier. Please read this manual faithful. In this manual you can find information about the handling and the safety regulations of this product. If you disregard this manual we cannot give a warranty for it. Technical changes, which are for progress, may be possible at any time. They are not mentioned particularly in this manual, but affixed extra.

1.3. Overhead installation



Danger of life!

You have to observe the regulations of BGV C1 (formerly VBG 70) and EN60598-2-7! Installations are to carry out by skilled personnel only.

Basically installation has to be made by using a second separate suspension. This can be e.g. a suitable net. The second suspension must be designed and attached so no part of the installation can fall down in case of failure.

During construction, reconstruction and deconstruction unnecessary stay in the range of moving areas, on lightning bridges, under elevated work stations or any other danger zones is forbidden.

The operator is obliged to following safety-related and mechanical facilities:

- Before the first start-up or after critical changes before restarting it has to be checked by an expert.
- Review in the frame of the inspection test at least all four years by an expert. .
- Review by a qualified person at least once a year.

How to carry out the overhead installation:

In tidal fall you should install the device out of the lounge area of people.

IMPORTANT! Overhead installation requires a high level of experience. This includes knowledge of calculating the payload, used installation material and safety inspections of the used material and the projector whereas the required experience is not limited to this. Do not try to carry out installation yourself under any circumstances if you are not qualified. Contact a professional installer. An inappropriate installation can lead to injuries and/or damaged properties.

It is not allowed to install the device in the grip area of people.

If the device may hang from the ceiling or from high beams, the use of truss systems is mandatory.
The device may not be installed so it can swing freely in the room.

Please note: Crashing down items can cause serious injuries! Do not install the projector, if you doubt the safety of a possible installation form!

Before installation make sure that the mounting surface has the ability to carry the tenfold point load of the own weight of the device.

Mount the device with the mounting-bracket to your trussing system using an appropriate clamp.

During overhead installation the device must be always secured by a safety rope which is designed to hold the twelvefold weight of device. Only safety ropes with quick-release safety fastener elements may be used. Hang up the safety rope in the hole of the mounting bracket. Direct the rope over the truss or an appropriate fastening point. Hang up the end in the fastening element and tie up the locking nut. A safety rope once exposed to failing load or damaged may not be used furthermore.

The maximum drop exceed must not exceed 20cm.

2. Function instruction

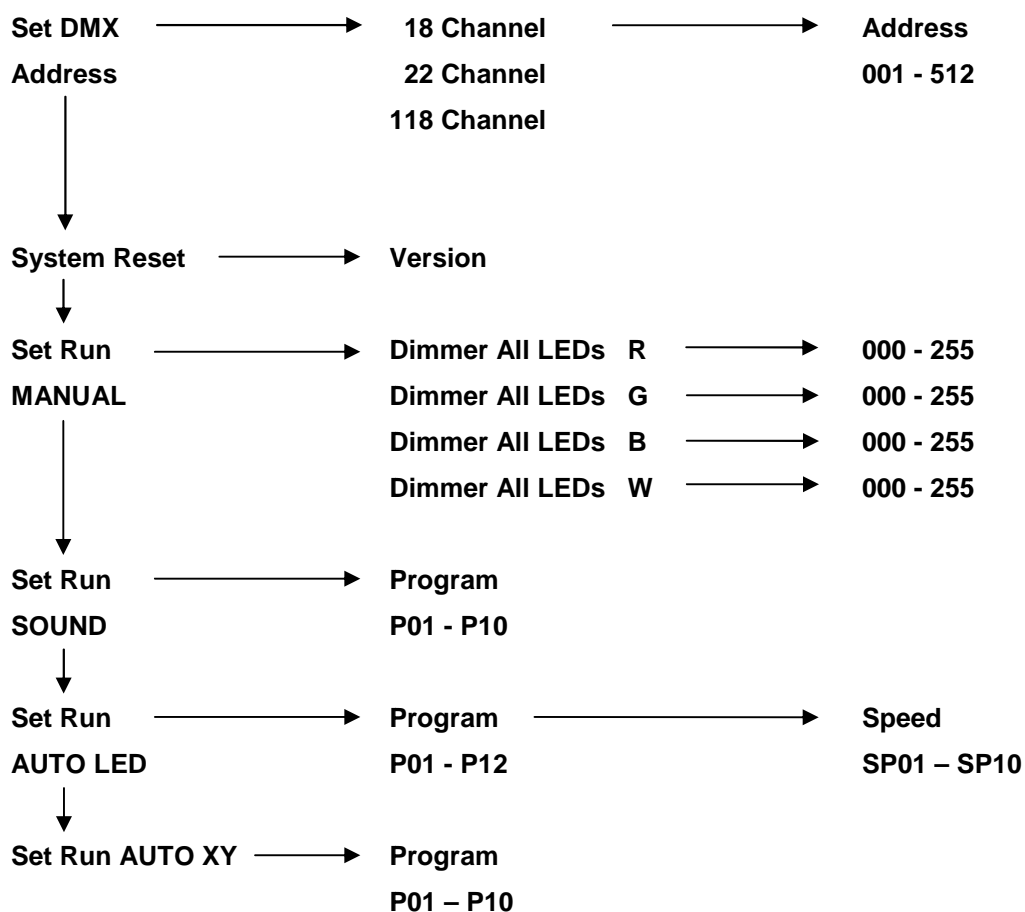
- International universal control signal: DMX512 USITT 1990 standard
- Infinite rotating Pan & Tilt
- Faster speeds: 3 phase motor
- DMX Channel: 118/22/18ch
- Outstanding Beam effect, specific optic system
- Pixel-mapping effect : individual control of each LED source in expanded FULL COLOR mode (RGBW), offers the option to display numbers, letters, graphic effects or images
- DMX512, Sound, Auto, Master/Slave
- Dimmer/Shutter
- RGBW color mixing
- Power in & out
- DMX Connectors: 3 pin XLR connector in and out
- LCD screen

3. Packing / Accessories

The device could be packed in carton, in a single case or in twin case.

- 1x Matrix Unlimited
- 1x User manual
- 1x Power cable
- 1x DMX cable
- 2x Clamp

4. Menu / Display





5. DMX Channel sheet

18ch	22ch	118ch	Function	Channel Value	Description
CH1	CH1	CH1	Pan	0-35 36-162 163-255	No function Continuous Rotating CW Continuous Rotating CCW
CH2	CH2	CH2	Pan	0-255	0-540°
CH3	CH3	CH3	Tilt	0-35 36-162 163-255	No function Continuous Rotating CW Continuous Rotating CCW
CH4	CH4	CH4	Tilt	0-255	0-270 °
CH5	CH5	CH5	Pan Fine	0-255	Pan Fine
CH6	CH6	CH6	Tilt Fine	0-255	Tilt Fine
CH7	CH7	CH7	Pan, Tilt Speed Adjustment	0-255	From fast to slow
CH8	CH8	CH8	Built-in Program (image)	0-47 48-63 64-79 80-95 96-111 112-127 128-143 144-159 160-175	No function Single control. LED Chase LED Run LED Jump LED Edacity LED Grouping Image 1 Image 2

				176-191 192-207 208-255 224-239 240-245 246-255	Image 3 Image 4 Image 5 Sound Mode Sound mode with movement Total Program
CH9	CH9	CH9	Built-in Program (Numbers & Symbols)	0-8 9-17 18-26 27-35 36-44 45-53 54-62 63-71 72-80 81-89 90-98 99-107 108-116 117-125 126-134 135-143 144-152 153-161 162-170 171-179 180-188 189-197 198-206 207-215 216-224 225-233 234-242 243-255	No function 0 1 2 3 4 5 6 7 8 9 + - x ÷ / < > ? ! * Ó # Á Ç () Total Program
CH10	CH10	CH10	Built-in Program (Letters)	0-8 9-17 18-26 27-35 36-44 45-53 54-62 63-71 72-80 81-89 90-98 99-107 108-116 117-125 126-134 135-143 144-152 153-161 162-170 171-179	No Function A B C D E F G H I J K L M N O P Q R S

				180-188 189-197 198-206 207-215 216-224 225-233 234-242 243-255	T U V W X Y Z Total Program
CH11	CH11	CH11	Built-in Program Speed Adjustment	0-255	From slow to fast
CH12	CH12	CH12	LED Strobe	0-255	Strobe effects
CH13	CH13	CH13	RGBW Dimmer	0-255	From dark to bright (can control the build-in program)
CH14	CH14	CH14	Global Red	0-255	From dark to bright
CH15	CH15	CH15	Global Green	0-255	From dark to bright
CH16	CH16	CH16	Global Blue	0-255	From dark to bright
CH17	CH17	CH17	Global White	0-255	From dark to bright
	CH18		LED LINE 1	0-7	LED 1 ,2 ,3 ,4 & 5 ON
	CH19		LED LINE 2	8-15	LED 1 ON
	CH20		LED LINE 3	16-23	LED 2 ON
	CH21		LED LINE 4	24-31	LED 1& 2 ON
	CH22		LED LINE 5	32-39	LED 3 ON
				40-47	LED 1&3 ON
				48-55	LED 2&3 ON
				56-63	LED 1 , 2 &3 ON
				64-71	LED 4 ON
				72-79	LED 1&4 ON
				80-87	LED 2&4 ON
				88-95	LED 1, 2 &4 ON
				96-103	LED 3&4 ON
				104-111	LED 1 ,3 &4 ON
				112-119	LED 2 ,3 &4 ON
				120-127	LED 1 ,2, 3 &4 ON
				128-135	LED 5 ON
				136-143	LED 1 &5 ON
				144-151	LED 2&5 ON
				152-159	LED 1 ,2 &5 ON
				160-167	LED 3 & 5 ON
				168-175	LED 1 ,3 &5 ON
				176-183	LED 2 ,3 & 5 ON
				184-191	LED 1, 2 ,3 & 5ON
				192-199	LED 4&5 ON
				200-207	LED 1 ,4 & 5 ON
				208-215	LED 2 ,4 & 5 ON
				216-223	LED 1, 2 ,4 & 5 ON
				224-231	LED 3, 4 & 5 ON
				232-239	LED 1, 3 ,4 & 5 ON
				240-247	LED 2, 3 ,4 & 5 ON
				248-255	No function
		CH18	1R	0-255	From dark to bright
		CH19	1G	0-255	From dark to bright
		CH20	1B	0-255	From dark to bright
		CH21	1W	0-255	From dark to bright
		CH22	2R	0-255	From dark to bright

		CH23	2G	0-255	From dark to bright
		CH24	2B	0-255	From dark to bright
		CH25	2W	0-255	From dark to bright
		CH26	3R	0-255	From dark to bright
		CH27	3G	0-255	From dark to bright
	 CH113	24W	0-255	From dark to bright
		CH114	25R	0-255	From dark to bright
		CH115	25G	0-255	From dark to bright
		CH116	25B	0-255	From dark to bright
		CH117	25W	0-255	From dark to bright
CH18		CH118	Reset	250-253	Reset

6. Technical data

- Power supply: AC110-240V/50-60HZ
- Power consumption: 300W
- Led source: 25x12W Cree Quad LEDs, Each LED with individual DMX Controls
- Beam angle: 5°
- Dimension: 39 x 39 x 48.5 cm

Importer:

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